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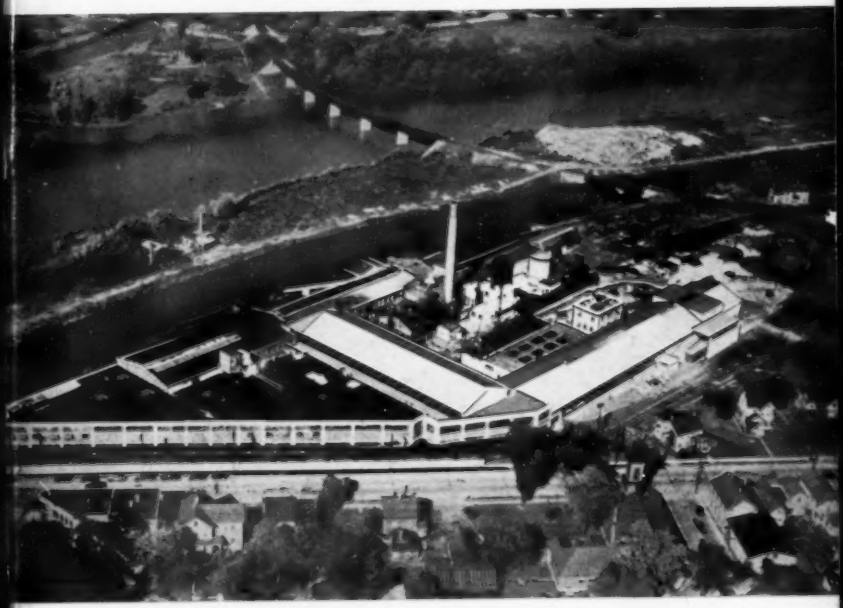
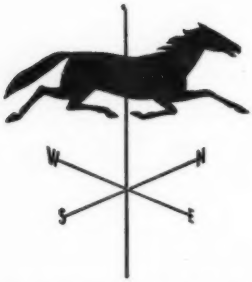


JULY 1952



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Estate of C. J. STOVER, *Proprietor*

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THE MAKINYAMBU ASBESTOS DEPOSITS, KENYA, BRITISH EAST AFRICA

(Editor's note: In our May 1952 issue we mentioned a new fibrous anthophyllite and promised to tell you more about it when we received the data. We are now in receipt of it and give the following.)

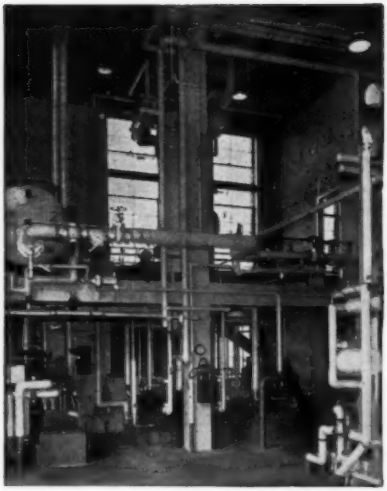
The discovery of the Makinyambu Asbestos Deposits was made towards the end of 1949 in the Teita Hills, roughly 120 miles from the Port of Mombasa and 25 miles from the railway. The deposits are reached by a road which runs for the first eighteen miles across flat, arid country at an altitude of 1500 feet, and then climbs for seven miles to 4000 feet. The country is not unattractive, is frequented by elephant, rhinoceros and other big game, and, being dominated by snow-capped Kilimanjaro (19,565 feet), has a temperature, healthy climate very similar to that of Los Angeles, Calif.

The extent of the ore bodies so far located has not yet been determined, but several extensive, inter-related deposits of anthophyllite have been found within an area of about five square miles. Makinyambu Asbestos Mines Ltd. have an Exclusive Prospecting License covering a total area of 70 square miles in which further exploration is proceeding.

The deposit which is at present being worked is ovoid in outcrop, and the ore body represents part of an altered periodite intrusion which dips into the surrounding hills at approximately 30° to 40°. Tho linked with other ore bodies to the north and to the south, this deposit has a length of 200 yards, a width of 100 yards, and a minimum depth of 120 feet.

To the west of this deposit is a normal contact in which a base actinolite rock forms an intermediate zone between the serpentine and the country rock of gneisses and schists. The ore is not homogeneous thruout, being composed of an area of serpentine rock, and another of serpentine plus fibre which takes the form of a mass deposit of fibre.

Some corundum-bearing pegmatites are found within the barren serpentine, associated with plaglioclase, horn-



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blende, vermiculite and muscovite. In the vicinity there is also magnesite, graphite, kyanite and garnet.

The asbestos occurs either as an interlocking network of criss-crossing fibres ,or as a vein-fibre which is reminiscent of chrysotile. The former is the more typical and is characteristic of mass fibre deposits elsewhere in the world, except that the ore is highly fibrous, and, for anthophyllite, of rather unusual tensile strength.

Excavations, whether on this particular ore body or on the others disclose a fibrous mass comprising innumerable individual "books" of fibre which lack congruous orientation one with another, and resemble a crazy mosaic the constituents of which are juxtaposed like the facets of a marquise-cut diamond. A geologist from one of the largest American mining corporations, who had visited the deposits, summed things up by remarking: "I have never before seen anything like it!"

The books of fibre comprising the mosaic may vary in size from a lump of sugar to a packet of cigarettes, and, on being struck, cleave into smaller, self-contained "rafts" of fibre varying in length from ¼" to 1½". Unfortunately, the longer fibre more often than not contains a medial parting which reduces its length to .6".

The intestitial material consits of chlorite, antignite, calcite, talc, iron ore and sphene, which, on removal, releases a glossy, pearl-white fibre of attractive appearance. This has been analyzed by the Kenya Mines & Geological Department as follows:

SiO_2	60.35
Al_2O_3	0.25
TiO_2	Nil
Fe_2O_3	1.15
FeO	6.14
CaO	0.12
MgO	27.41
F	0.02
H_2O —110°C	0.28
H_2O +110°C	4.08

H_2O plus 110°C determined from loss on ignition at 1100°C plus O_2 required to

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METHOD Wet.

The strength of the fibre compares unfavorably with that of chrysotile, and will not, in the milling process, withstand the rough treatment to which chrysotile is subjected. After fourteen months of exhaustive experiments in the laboratories of the Kenya Government fiberizers, screens and other cleansing devices were evolved which gave an 18% recovery of the "rock" milled, and a box test of 0. 75. 19. 6. About 50% of the milled fibre exceeded ½" in length.

A plant capable, on a one shift basis, of producing 5 tons of fibre a day is now nearing completion at the Mines, and is expected to be in production during the latter part of June. Preliminary tests with the equipment have proved encouraging.

The Makinyambu anthophyllite is not, however, as in the case of chrysotile, an altered form of the rock between which it is veined. It is the whole rock, and the gangue takes the form of impurities which are ingrained with it. The milling process would thus seem to resolve itself into the simple function of detaching the fibres, so far as possible, one from another, and of cleansing them of the interstitial "adhesives".

In the case of chrysotile, the bulk of the gangue rejected by aspiration is useless rock, but the milling of anthophyllite generates large quantities of asbestos and other dusts ,which have a marked affinity for the fibre and adhere to it with natural persistance. Unless the fibre is cleansed thereof the product has a most unattractive appearance.

The production of a clean, gleaming fibre is practicable, but the controlling factor is atmospheric humidity. In Nairobi (altitude 5,500 feet) where the fiberization experiments were conducted, variations in humidity had, at times, discouraging effects. The Mines, however, could hardly be more favorable situated, lying as they do almost

ASBESTOS "Shorts" and "Floats"

reduce moulding time and distortion

The grades of Johns-Manville asbestos fibres recommended as moulding compound ingredients have both a high percentage of fines and a low fibre content that combine to reduce the quantity of air in the mass. This shortens moulding time . . . and minimizes distortion or rebound during drying.

In addition, these short fibres and fines improve the surface appearance of the plastic . . . whereas long fibres, "crudy" bundles, and coarse particles mar the surface and destroy the moulds.

For many other products such as adhesives, asphalt tile, texture paints, auto underbody coatings, and friction materials . . . these versatile asbestos "shorts" and "floats" provide important advantages when used as fillers, extenders, conditioners, reinforcers, and heat-resisting agents.

If you would like further information about the various uses, properties and classifications of these versatile forms of asbestos, write to us now for Brochures AFD-3A and 4A.

JM

Asbestos Fibre Division
Canadian Johns-Manville Limited
970 Sun Life Bldg. (Telephone: UN-6-9701) Montreal, P. Q., Canada

on the Equator in a region which is arid for the greater part of the year.

Samples of fibre so far distributed to interested parties were produced during unfavorable climatic conditions in Nairobi, whereas a recent test run made at the Mines yielded a fibre far more in keeping with the target being aimed at. Nevertheless, the above mentioned samples attracted orders totalling over 900 tons, and sufficiently interested eleven other consumers to cause them to declare that they would be interested in absorbing all, or part of, our entire output.

Certain organizations in the United States, Great Britain and Germany are experimenting with this fibre in the hope that it may become useful as an extender of its more aristocratic relative chrysotile. Whether or not this objective will be gained is still uncertain, but countries as far afield as Japan and Jugo-Slavia, Scandinavia and India appear to be sufficiently short of dollars and of asbestos fibre to be willing to embrace a high grade anthophyllite with open arms.

The physical characteristics of the Kenya fibre are by no means all that they might be, but, if chrysotile continues in short supply ,and if industry around the world continues to expand, ingenious people will be driven to seek the next best substitutes.

The above listed analytical data suggest that there is scope for the application of the "black sheep" of the asbestos family to a large range of industrial uses, not the least being in the field of electrical insulation, in which the fibre under review, in felt form, rates as high as 113 to 139 volts to the mil. The Makinyambu fibre is extraordinarily resistant to moisture and weathering, as is evidenced by the many outcrops occuring in the Teita Hills, where centuries of exposure to tropical heat and rains have caused little or no decomposition.

At the present time, so far as we can gather, the immediate uses to which this fibre is to be put includes the filtering of chemicals, wines and spirits, the manufacture of compound packings, thermal and acoustical insulation in its various forms, and as a protection against flash in modern warfare.

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THE COVER

This issue starts our 34th volume. The new cover cut is an aerial view of The RUBEROID Co.'s South Bound Brook, New Jersey plant where asbestos-cement and asphalt building products are manufactured. This, the first Ruberoid plant, was established in 1886 in a remodelled sawmill with a total working force of only 18 men. There, in 1892, William Griscom, a chemist and the first Ruberoid plant superintendent, developed the first roll of ready-to-lay asphalt roofing ever made. Today, the RUBEROID Co. owns and operates 12 large, modern factories and an asbestos mine. It's products are distributed by more than 10,000 dealers. The growth of this comprehensive manufacturing and distribution system is representative of the great demand for the contributions which the building industry—and the asbestos industry in particular—has to offer.

THE SUBSTANCE OF SHADOWS

By Herb Rothman—The Ruberoid Co.

Believe it or not, one of the most substantial and important contributions to modern architecture has no substance: SHADOWS.

Were human beings subjected to an environment totally void of shadows, they would become restless, tense and uncomfortable. Why? Your psychologist can probably supply a sound theory—but you can perform a simple experiment and draw your own conclusions:

Photograph the side of a building on a bright, sunny day. Open the lens of your camera one stop higher than you should. The resultant picture won't look like the building you photographed. It will have a flat, "stage-setting" appearance—hard to look at for any length of time because there's not a shadow to ease the glare, to soften the surface, to give the subject depth, warmth and beauty. Yes, take away the shadows and you inadvertently take away man's refuge from tension, worry and nervous fatigue! That's why shadows—the oldest phenomena

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under the sun—have been courted by architects almost since the beginning of civilization.

In olden sundial days shadows were used primarily to shroud ceremonial buildings with an aura of mystery and imagination . . . Greek civilization used sculpture as an inherent part of building design. Even in their ruins, the majestic shadows cast across the buildings outlived the imposing edifices they adorned. Later, Bramante and Michelangelo added a fillip to the shadowy side of architecture. They used advancing and receding planes to create movement in depth thru shadows accentuated by overhead lighting. The delicate interplay of light and dark so obsessed the Renaissance masters that their word "chiaroscuro" is today a necessary part of the architect's vocabulary. Among 20th Century architects, Brazilians are considered the leading exponents of the play of light and shadow across the face of a building. The shadow effects are obtained, not with the use of classic or Renaissance sculpture, but thru the functional use of fenestration.

In general, it can be said that man's efforts to conquer space in three-dimensional building design is really a story of man chasing shadows. The chase is still on, and, because shadows are inherently ephemeral, the chase will never end.

Today a new group has joined architects, sculptors and painters in tracking down the elusive shadow—building materials manufacturers. The asbestos-cement roofing and siding industry, for example, offers shadow-hungry architects shingles with ridged surfaces, delicate light and dark surface treatment, color blends, irregular and curved and straight edges, tapered butts, et ad infinitum—all with an eye towards creating deeper, richer, more eye-pleasing shadow lines.

Recently, The RUBEROID Co. introduced SHADOW-EDGE—an asphalt double-coursing strip—to bring warm shadow beauty to asbestos shingles, or to any type of lapped sidewall shingles or boards.

Architects, where possible, prefer to work with the walls themselves to get character and depth into exterior

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design. SHADOWEDGE provides a practical, inexpensive means of implementing a basically desirable type of exterior wall construction. Because of its tapered design, SHADOWEDGE thrusts out the bottom edge of the shingle to produce a deep, shadow-rich, double-course effect. And, these particular shadows have real substance. SHADOWEDGE cushions and insulates outerwalls, gives them added strength, and etra weatherproofing.

Truly, shadows, tho insubstantial in themselves, are far from inconsequential in their make-up and effect.

MAGNESIA TAKES A FLOOD TEST

(This data has been taken almost verbatim from the Spring 1952 issue of The Power Specialist, published by J-M)

When the flood waters of the Kaw struck Kansas City last summer only those around fifty years old could recall a comparable catastrophe—the flood of 1903.

One business enterprise which survived both disasters was the Faultless Starch Co. The predecessor to the present company was organized in Kansas City, Missouri in 1887 by Major Thomas G. Beaham, a veteran of the Civil War. The business was incorporated as the Faultless Starch Company in 1902. Then, one year later, came the first memorable Kansas City flood.

The young business survived this ordeal but, due to damages, they had to have a new building. It was erected at their present location. This building and an adjacent one put up in the late thirties to double their floor space make up the plant that was subjected to the flood of 1951.

The water rose to a point 14 feet above the first floor. For ten days it swirled thru and around the buildings. This was a trying time but out of it came facts of value. One such instance concerns the J-M 85% Magnesia insulation on the submerged steam piping.

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RETAINS HEAT
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BETTER
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York pipe coverings are manufactured with a white asbestos felt wrapper under the canvas or glazed jacket. The asbestos wrapper keeps the section compact, adds to the efficiency and the strength of the pipe covering and gives the finished job a clean white smooth appearance.
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Altho under water for ten days, no more than five per cent of the 85% Magnesia insulation had to be replaced. Even this small amount would probably have come thru intact and ready for service if water had been the only problem. However, heavy objects were pushed down with the ood and it was these striking against the insulation that damaged a few spots.

Mr. Gordon T. Beaham, Jr., grandson of the founder and now president of the company, reports that this insulation had been in service for approximately thirteen years at the time of the flood. Having set himself to expect the worst when the water subsided, he was particularly pleased to find his thirteen-year-old insulation so little damaged. The ability of 85% Magnesia to withstand wetting and drying is one of the advantages that makes it so durable. Properly installed, it withstands not only the usual but also the unusual such as floods.

The small amount of necessary repair work was done by the Johns-Manville Technical Service Unit in Kansas City. Spots damaged by heavy floating objects were replaced and some sections of piping had to be re-canvassed but the J-M 85% Magnesia had come thru so well that complete restoration was surprisingly simple.

The Faultless Starch Co. was shut down for a far shorter period than the pessimists had predicted. They are now back in stride again making starch for laundry purposes. This product—and they make only the one—is distributed to approximately one-quarter of the population of twenty-three states of the Midwest and Southwest.

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GOLD MINE WILL PRODUCE ASBESTOS

An interesting feature that a gold mine may turn to asbestos production, which might become a more profitable venture, is revealed by the London Mining Journal in its issue of February 29, 1952.

It is stated that a gradual change from gold to asbestos production will be considered by the Antelope Mine when the results of further investigations of serpentine deposits on its property will have become available in about six months. This view was expressed in an interview by M. C. G. Meyer, consulting engineer to the General Mining and Finance Corporation. Meanwhile, however, development work for gold is continuing.

Gold-mining operations had, according to Mr. Meyer exposed chrysotile asbestos in the serpentine bodies in various positions of the mine over a period of years, and there were surface exposures on other claims on the extensive property. On the Yadkin section, cross fibres were present in workings closed down some years ago and were now being tested by development. At the Antelope Mine itself slip fibres had been exposed, but not developed, between the 12th and 14th levels at depths down to 2,000 ft. Prospecting of the surface exposures was in progress. Samples tested showed that the asbestos, especially the slip fibre, was of good quality but it was too early to assess the economic importance of the deposits.

Dealing with the question of switching from gold to asbestos, while saying that it could not be decided now, he emphasized that the possibility was very interesting because of the advantages which would accrue from starting asbestos mining with an existing organization and development at depth. Like most Southern Rhodesian gold mines, the Antelope Mine, a medium-size producer with a monthly output of about 600 to 650 oz. of gold, staffed by about 23 Europeans and 450 Natives, had been struggling against rising costs. A switch to the production of asbestos would, therefore, open up interesting prospects for this enterprise.

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MARKET CONDITIONS

GENERAL BUSINESS.

The steel strike has already had some effect in slowing or stopping production in the plants of many producers of both defense and civilian goods. Should it continue a few more weeks the effect will be severe and even after production is resumed it will probably be at least a month or two before pipelines can be refilled and fabricators can get back into full production. Meanwhile business in other lines is reasonably good altho the sentiment of Congress regarding price and wage controls indicates that production has caught up with consumption in many lines of both commodities and manufactured goods.

ASBESTOS — RAW MATERIAL.

The trend in asbestos fibre production and shipments is fairly constant in comparison with the past five months. In total the output is holding fairly well in line with last year, being under by approximately 5%.

The demand for the longer grades from 3 Group to 5 exceeds supply, even tho the output of these grades has increased over the previous year. This is offset, however, by a fairly heavy reduction in the output and demand for the shorter grades, which is ranging from 15 to 20% below the previous year.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. The market is still strong with emphasis on asbestos cloth, due chiefly to the Navy requirements. The heavy demand is anticipated to continue on all asbestos textiles for the balance of 1952.

Asbestos Brake Lining. Sales are still at a high level and the market is at the most competitive level since before World War II. A top year is expected for replacement sales but a lower level for equipment sales because of the steel shortage and cut back on car production.

Asbestos Paper. Orders are falling off for asbestos

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Mines and Mills in Gila Co., Arizona

paper and demand is considerably below production capacity. There should be some improvement for the latter half of the year. The *Millboard* market is just about the same as paper. The *Asbestos Saturated Paper* market is about the same as last month.

Insulation. High Pressure. Production has been curtailed since the market is not as strong as it has been during the past several months; however, it is estimated at being fair. The situation should change following the settling of the steel strike.

Insulation. Low Pressure. The demand continues at lower level than that for 1951. Rehandlers and equipment producers continue to buy on hand-to-mouth basis, consequently back-log of orders is small and factory inventories sibeable. Improvement is expected during the second half of the year.

Asbestos Cement Products. The siding market is very strong at present and the demand exceeds capacity, especially for ceramic glazed finished siding. Shipments are running several weeks behind.

Corrugated inquiries have picked up considerably and should develop shortly, altho the steel strike is holding up many projects at the present time. The market for roofing shingles is slightly below normal.

The market for pressure pipe is spotty with demand in some localities being very low. There is a steady demand for conduit pipe and orders for flue and H. C. pipe are increasing.

Asphalt Tile. The demand for asphalt tile has slackened somewhat and industry sales are running slightly below those for this time last year.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

. . . —

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East Linden Ave., Linden, N.J.

Africa (S. Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for February 1952	6,361.25 tons
Valued at	£514,207
Production for February 1951	6,071.42 tons
Valued at	£411,878
Production for the year 1951	77,663.15 tons
Valued at	£5,452,108
Production for the year 1950	71,526.82 tons
Valued at	£4,615,490

Africa (Swaziland)

Production for April 1952	2,550 tons
Production for May 1952	2,950 tons

Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for April 1952	79,645 tons
Compared with April 1951	84,774 tons

Dominion Production for April 1952 is 81,301 tons, a difference of 1,656 tons from the Quebec figure.

Australia — Statistics

(Published by Bureau of Mineral Resources, Geology and Geophysics, Ministry of National Development)

Tons 2240 lbs.

Production	Quarter ending Sept. 30, 1951
Chrysotile	119 tons
Crocidolite	365 tons
	484 tons
Imports	
Chrysotile	2,664 tons
Crocidolite	tons
Amosite	2,294 tons
Other	879 tons
	5,837 tons
Exports	
U. S. A.	66 tons
U. K.	21 tons
Other Countries	103 tons
	190 tons

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United States

(From U. S. Bureau of Mines)

The actual figures of production of Asbestos in the United States during 1951 have just been received—51,730 tons. Compared with 41,358 tons in 1950.

Major production is in Vermont. Moderate supplies of chrysotile, some of it of high quality spinning grade, were obtained in Arizona. Small sales of amphibole asbestos were reported from several States.

Consumption	1951		1950	
Domestic Asbestos	Tons	Value	Tons	Value
Sold or used by Producers	51,645	$ 3,912,500	42,434	$ 2,925,050
Imports (Unmanufactured)	761,873	58,521,046	705,458	47,284,205
Exports (Unmanufactured)	16,526	3,662,270	20,890	4,084,384
Apparent Consumption	796,992	58,771,276	727,002	46,124,871

Imports into U. S. A.

Unmanufactured Asbestos - By Countries	March 1952 Tons (2240 lbs.)
From Canada	48,753
S. Rhodesia	1,223
Union of S. Africa	3,252
U. S. S. R.	214
Australia	47
South America	48
Other Countries	35
	53,572
Valued at	$5,674,896
By Grades:	
Crude No. 1, Chrysotile	20
Crude No. 2, Chrysotile, Canada	25
Crude No. 2, Chrysotile, So. Rhodesia	59
Crude Other, Chrysotile, So. Rhodesia	1,164
Crude Other, Chrysotile, Other Countries	15
Crude, Blue, Bolivia	48

Continued On Page 30

CANADIAN ASBESTOS FIBERS

THE NICOLET MINE
Norbestos (via Warwick)
Que.

Address Inquiries to:

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70 Pine Street

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Mundet Cork Corporation

Insulation Division, 7101 Tonnelle Ave., North Bergen, N. J.

Mundet district offices are located in these cities:

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507 S. Cedar St.

CINCINNATI 2
427 West 4th St.

DALLAS 10
601 Second Ave.

DETROIT 21
14401 Prairie Ave.

HOUSTON 1
Commerce and Palmer Sts.

INDIANAPOLIS 4
15 E. Washington St.

JACKSONVILLE 6, FLA.
800 E. Bay St.

KANSAS CITY 7, MO.
1401 St. Louis Ave.

KNOXVILLE
1221 Grand Ave.

LOS ANGELES
(Maywood): 6116 Walker Ave.

In Canada:
Mundet Cork & Insulation, Ltd., 35 Booth Ave., Toronto

NEW ORLEANS 16
315-25 N. Front St.

NEW YORK 17
331 Madison Ave.

PHILADELPHIA 39
856 N. 48th St.

ST. LOUIS 9
3176 Brannon Ave.

SAN FRANCISCO 7
440 Brannan St.

Imports into the U. S. A. (Continued)

	March 1952 Tons (2240 lbs.)
Crude, Blue, Australia	47
Crude, Blue, Union of So. Africa	745
Crude, Amosite, Union of So. Africa	2,381
Textile Fibres, Chrysotile, Canada	1,961
Textile Fibres, Chrysotile, Union of So. Africa	123
Shingle Fibres, Chrysotile, Canada	8,267
Paper Fibres, Chrysotile, U.S.S.R.	6,677
Paper Fibres, Chrysotile, U.S.S.R.	214
Other Fibres, Chrysotile, Canada	31,823
	53,572

Manufactured Asbestos Goods:

	March 1952 Quanity (lbs.)	Value
Asbestos Yarn		
Canada	36,419	$ 30,090
United Kingdom	54,509	35,151
Asbestos Packing—Fabric	7,732	5,901
Asbestos Packing—Not Fabric	1,197	1,090
Asbestos Woven Fabrics—Other	9,653	7,761
Asbestos Brake Lining (Molded)	28	138
Asbestos Cement Products (Impreg.)	3,877	644
Asbestos Cement Products (Not Impreg.)		
Mexico	428,954	25,333
Other Countries	293,477	8,450
Asbestos Manufactures—Others	—	698
	745,846	$115,266

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	March 1952 Tons (2240 lbs.)	Value
To Europe	596	$144,925
S. America	156	44,616
Other Countries	338	88,542
	1,090	$278,083

Manufactured Asbestos Goods:

	March 1952 Quantity		Value
Asbestos Pipe Covg. & Cement	Lbs.	553,622	$ 70,525
Asbestos Textiles & Yarn	Lbs.	99,875	68,248
Asbestos Packing	Lbs.	212,711	208,209
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lbs.	557,527	556,063

Continued On Page 32

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

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Exports from U. S. A. (Continued)

		March 1952 Tons (2240 lbs.)	Value
Asbestos Bk. Lng. Woven	Lin.Ft.	55,448	44,161
Asbestos Clutch Facings	No.	96,034	80,216
Asbestos Brake Blocks	Lbs.	49,366	60,077
Asbestos Construction Materials	Lbs.	4,836,186	316,888
Asbestos Manufactures—Others		....	57,190
			$1,461,577

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufantured Asbestos	March 1952 Tons (2000 lbs.)	Value
Crude		
United States	30	$ 20,905
United Kingdom	....	....
South America	....	....
Central America & Mexico	....	....
European Countries	....	....
Other Countries	....	....
	30	$ 20,905
Milled		
United States	17,491	$2,792,345
United Kingdom	2,290	493,503
South America	690	130,572
Central America & Mexico	520	90,286
European Countries	4,628	748,547
Other Countries	2,804	415,491
	28,423	$4,670,744
Shorts		
United States	33,429	$1,669,153
United Kingdom	1,695	71,357
South America	345	29,980
Central America & Mexico	40	1,520
European Countries	5,618	411,217
Other Countries	839	64,163
	41,966	$2,247,390
Grand Total—Unmanufactured Asbestos	70,419	$6,939,039
Manufactured Asbestos Goods:		
Brake Linings		$ 46,755
Packing		10,794
Other Materials		70,408
		$ 127,957

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RHODESIAN CHRYSOTILES
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Imports of Asbestos by United Kingdom

Raw Material 1952

	January Tons (2240 lbs.)	February Tons (2240 lbs.)
From Union of South Africa	1,573	1,609
Southern Rhodesia	2,733	2,604
Bechuanaland, Basutoland & Swaziland	1,201	1,588
Canada	2,134	1,837
Other Commonwealth Countries and the Irish Republic	50	50
Foreign Countries	20	295
	7,711	7,983

	March Tons (2240 lbs.)	April Tons (2240 lbs.)
From Union of South Africa	1,518	2,320
Southern Rhodesia	3,081	3,807
Bechuanaland, Basutoland & Swaziland	757	1,619
Canada	1,972	2,258
Other Commonwealth Countries and the Irish Republic	....	....
Foreign Countries	....	6
	7,328	10,010

AUTOMOBILE SALES

	May 1952
Passenger Cars	397,836
Motor Trucks	105,586
Motor Coaches	423
	503,845

In May 1951 a total of 652,727 motor vehicles were sold. In the five months of 1952 the total was 3,272,175.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

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BUILDING

Construction contract awards in May for the 37 states east of the Rockies totaled $1,563,660,000 or 2 per cent less than April and 39 per cent less than May 1951, according to F. W. Dodge Corporation, construction news and marketing specialists.

The May 1951 total was abnormally high due to the inclusion of $980,000,000 awards in Atomic Energy Commission projects classified in the figures as non-residential building.

Exclusive of these AEC awards in May 1951, the difference percentagewise with May 1952 was 2 per cent.

The five-month 1952 total for the 37 states was $6,269,728,000 or 15 per cent below the comparative 1951 figure. Again, excluding 1951's AEC awards ,the five-month figure for 1952 would have been only 2 per cent behind last year.

Non-residential awards in May were $462,863,000 or 18 per cent below April and 72 per cent below May 1951. (Note: Exclusive of AEC awards in 1951 the comparison would show May 1952 only 29 per cent behind May 1951.)

Residential awards of $753,755,000 were 11 per cent higher than April and 14 per cent above May a year ago. Public and private works and utilities were $347,042,000 or 2 per cent less than April but 25 per cent more than May 1952.

Comparing five months 1952 with five months 1951, individual totals with percentages of difference are as follows: Non-residential, $2,147,475,000, down 39 per cent. (Note: Exclusive of 1951 AEC awards, this year's total is 15 per cent below the 1951 figure.)

Residential awards, $2,762,245,000, down 1 per cent; public and private works and utilities, $1,360,008,000, up 23 per cent.

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NEWS OF THE INDUSTRY

BIRTHDAYS

R. D. Cross, Secretary-Treasurer, Smith Asbestos Products, Inc., Millington, N. J., July 16.

Thomas L. Gatke, President, Gatke Corporation, Chicago, Illinois, July 16.

L. U. Noland, Chairman of the Board, Noland Co., Inc., Newport News, Va., July 17.

G. F. Bahrs, Treasurer, The Ruberoid Co., New York City, N. Y., July 18.

Clifford F. Favrot, President, Asbestone Corporation, New Orleans, La., July 18.

J. F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, N. J., July 18.

C. C. Gibson, Executive Vice President, Pabco Products Inc., San Francisco, Calif., July 20.

C. B. Whitely, Secretary, Scandinavia Belting Co., Charlotte, N. C., July 20.

C. J. Backstrand, President, Armstrong Cork Company, Lancaster, Pa., July 21.

Laurence W. Clarke, Vice President, Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, July 21.

R. S. King, Chairman, Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, July 21.

W. S. Simpson, Director & Secretary, Raybestos-Manhattan, Inc., Bridgeport, Conn., July 21.

R. R. Galloway, Sales Manager, Building Materials Division, Pabco Products, Inc., San Francisco, Calif., July 22.

J. E. Hooker, Pacific Roofing Co., Portland, Oregon, July 22.

Charles A. Saitta, President, Asbestos Corporation of America, New York City, July 23.

C. R. Hubbard, Vice President, Garlock Packing Co., Palmyra, N. Y., July 25.

Hilton T. Moberg, President, Arnold Insulations, Inc., Chicago, Ill., July 25.

George R. Weber, Treasurer, Raybestos-Manhattan, Inc., Manheim, Pa., July 25.

Frank C. LeRow, Vice President and Treasurer, Asbestos, Asphalt & Insulation Mfg. Co., Chicago, Ill., July 26.

P. H. Ryan, District Manager, Asbestone Corporation, St. Louis, Mo., July 26.

R. S. Hammond, General Sales Manager, Bldg. Products Division, Johns-Manville Corporation, New York City, July 27.

John Ozurovich, President, Atlantic Asbestos Corporation, New York City, July 31.

Harry H. Heckroth, Vice President, Penn Supply & Metal Corporation, Phila. Pa., August 2.

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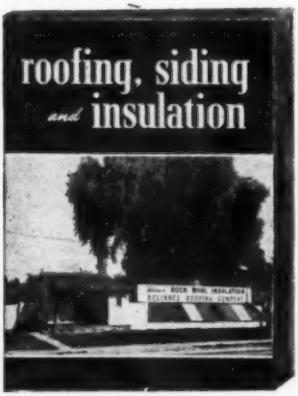

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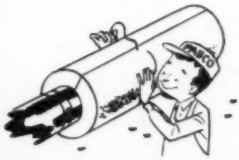

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C. W. Gregg, Treasurer and Director, The Flintkote Co., New York City, August 3.

G. P. Reilly, Plant Manager, Smith Asbestos Products, Inc., Millington, N. J., August 5.

A. P. Keasbey, President, Robert A. Keasbey Co., New York City, August 6.

Paul C. Collopy, President, Acme Asbestos Covering & Flooring Co., Chicago, Ill., August 8.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Ill., August 11.

Carl H. Cole, Branch Manager, Kelley Asbestos Products Co., Tulsa, Okla., August 12.

Matthew L. Ladden, President, Ladden Asbestos Corporation, Brooklyn, N. Y., August 15.

Ernest Muehleck, President, Keasbey & Mattison Co., Ambler, Pa., August 15.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

ASSOCIATED ASBESTOS CONTRACTORS
Semi-Annual Meeting

Charlotte and other communities over a wide area were well represented at the semi-annual meeting of the Associated Asbestos Contractors of the Southeastern States, Inc. at Cloister, Sea Island, Ga., on June 16-18.

James McDonald of Reid Hayden, Inc. of Charlotte, president, was in charge of the meeting.

An insulation manual which has been compiled and edited by the South eastern group is now ready for distribution among members of a selected list of engineers. Round table discussion of a variety of topics, predominantly technical, constituted a large part of the convention program.

Waynesville has been tenatively chosen as the site of the next meeting, which will be held during the fall, the exact date to be announced later.

ANNUAL REPORT OF
Cyprus Asbestos Mines

The 1951 report of W. Parry James, A.C.S.M., A.M.I.M.M., Inspector of Cyprus Mines, has been received and we quote that part concerning the asbestos mines:

The Amiandos asbestos mine situated at a height of 4,500 feet on the Troodos range, operated thruout the dry season on a considerable scale and a record amount of asbestos fibre was produced. Additional mechanization, improvements in the lay-out of the quarries, a plentiful labor supply and freedom from labor disputes were again powerful factors which contributed to the steady increase in the production rate. A certain loss of production was caused by early rain storms.

The maximum number of laborers employed during the working season was 2,744 as compared with 2,741 in 1950. 1,599,511

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STAFFORDVILLE, CONN. USA.

**Nylon Has Proved Itself Essential in Asbestos Cement Felts*

tons of asbestos-bearing rock were quarried, and nine mills were in full operation treating 457,911 tons of raw material for an output of 16,909 tons of asbestos fibre. Comparative figures for 1950 were 1,386,050, 420,797 and 14,752 tons respectively. 15,088 tons of fibre were exported.

There was a heavy demand for all grades of fibre and the market was expected to remain favorable during 1952.

Wage rates increased with the rise in the cost of living.

Expenditure on buildings, machinery, plant and equipment during the year amounted to £61,027.

Asbestos-cement sheets have been manufactured for local consumption for the past three years. Increased production was achieved in 1951 when a larger plant came into operation, and a quantity of the sheets was exported.

ASBESTOS COVERING & ROOFING CO.

Purchase Ground For New Office and Warehouse

The Asbestos Covering & Roofing Co., Washington, D. C., recently purchased 17,500 sq. ft. of ground on Blair Road and will soon start to erect a building to contain their general office and warehouse.

It will probably be after the first of the year before they move from their present address, 4104 Georgia Avenue, where they have been located since late 1930.

ASBESTOS MINES IN INDIA

The following list of Indian producers of asbestos was taken from the April 1952 Mineral Trade Notes, United States Department of the Interior—Bureau of Mines. The information was supplied to the American Embassy by the Geological Survey of India.

The Deputy Collector-in-Charge of Mines & Agent, Government Mines, Chaibasa, Singbhum District, Bihar. Mines are: Sarangposi Asbestos Mines, Singhbhum District, Bihar. Qualities: First grade, fibres over 3 inches long; second grade, fibres between 1 and 3 inches long; third grade, fibres below 1 inch long; and fourth grade, powdery material.

Dublabera Mining Co., Ltd., c/o Normeo, Ltd., 14 Netaji Subhas Road, Calcutta. Mines: Lailam, Singhbhum district, Bihar.

Krishnappa Asbestos & Barytes, Ltd., P.O. Vemula, Cuddapah district, Madras. Mines are in Cuddapah district. Quality: Four grades—Special A, A, B, and C. Disposal: Short lbres (C grade) sold in India; the other grades (long fibre) have no market in India and are for export.

H. Subramanya Iyer, 585 Dewan's Road, Mandya, Mysore. Mines at: Mavinavalli and Gopalpur, Mandya district, Mysore; Malaganahalli, Hole-Narsipur Taluk, Hassan district, Mysore. Qualities: (a) Chrystalline variety; (b) amphobile variety.

P. S. Narayana, Mines House, Malleswaram, Bangalore 3, Mysore. Mines at Tirumalapur district, Mysore.

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Membership Certificate Awarded To
Herbert Abraham, President, Ruberoid Co.

At the Spring Meeting of the American Chemical Society, Herbert Abraham, President and Chairman of the Board, The Ruberoid Co., was one of the 53 ACS Members to be presented with a 50-year Membership Certificate.

JOHNS-MANVILLE EXPANDS
Plant at Watson, Calif.

A major expansion of the Johns-Manville plant at Watson, California for the production of industrial insulations was announced by A. R. Fisher, President.

The expanded manufacturing facilities will provide the Long Beach, Calif., area with an additional 80 to 100 new jobs and an added annual payroll of about $350,000.

It is expected that construction of the building to house the new operations will be completed in the early Fall of 1953. The building will enclose about 100,000 square feet of floor space.

The expansion is being made to better serve Johns-Manville's industrial customers in the West Coast, Rocky Mountain and Southwest areas. The insulations to be produced at Watson are used by Western railroads, steel plants, the heat treating and metals industry, the petroleum industry, public utilities and other industries where heat control is necessary. The Watson plant, when completed, will also export industrial insulations to the Hawaiian Islands and central and South America.

WILLIAM C. ARMSTRONG, JR. OF ROCKBESTOS
Awarded BS Degree

William C. Armstrong, Jr., Secretary and Treasurer of Rockbestos Products Corporation, New Haven, manufacturers of permanently insulated wire and cable, was awarded an honorary Bachelor of Science degree at the commencement exercises of Quinnipiac College in New Haven.

The Rockbestos secretary and treasurer holds a bachelor of commercial science degree from Northeastern University, Boston.

Active in professional, industrial, and civic circles, he came to Rockbestos in 1922 and was elected assistant secretary and assistant treasurer in 1928. He was elected to the board of directors in 1937.

Mr. Armstrong is a member of the Controllers' Institute of America, Navy League of the United States, New Haven Rotary Club, and the Spot Club of the National Association of Cost Accountants, made up of past national officers and directors.

W. E. SINCLAIR, M.I.M.M.
On Professional Visit

W. E. Sinclair, M.I.M.M., Consulting Engineer is leaving Johannesburg on an extended professional visit to the N. W. CAPE, NAMAQUALAND and S. W. AFRICA, and will be absent for some three weeks or more.

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BIRD & SON APPOINTS
Philip C. Johnson Acting Western Manager

Philip C. Johnson was appointed Acting Western Manager for Bird & Son, Inc.

William W. Wilson, Western Manager, will serve in an advisory capacity and will handle special problems.

Mr. Wilson has a total of 39 years with Bird & Son. He started at the Main East Walpole Plant of the company in 1913. In addition to conducting field surveys and special studies, Mr. Wilson will also continue his valuable work with the Insulating Siding Association as Chairman of the Planning Committee.

Mr. Johnson, formerly Assistant Western Manager, now takes over the administrative duties of the Western Division. He was with Bird & Son from 1938 to 1945 as a salesman in Nebraska and in Cleveland, Ohio. In January 1952 Mr. Johnson was promoted to Assistant Western Manager.

A.S.T.M. AWARDS OF MERIT

The American Society for Testing Materials honored ten technical leaders in the field of engineering materials during the ASTM 50th Anniversary Meeting. One of the leaders was *Ray Thomas*, Staff Engineer, Carbide and Carbon Chemicals Division, Union Carbide and Carbon Corp., South Charleston, W. Va., who received the Award of Merit for inspiring leadership in standards and research work ,notably in Committee C-16 on Thermal Insulating Materials.

CAPE ASBESTOS COMPANY LIMITED
Annual Meeting

The Annual General Meeting of Cape Asbestos Company Ltd., of London, was held on June 6th and reports and balance sheets as of December 31, 1951, were submitted.

The Chairman, Robert Walker, reported that the Accounts of the past year demonstrated the further progress made by the Group. The Group's Trading Profit amounted to £1,381,659, compared with £913,960 in 1950. Mr. Walker also reported another year of expansion on the manufacturing side of the company's activities. He referred particularly to the excellent labor relationship which exists in the factories.

The Barking factory had achieved a higher figure of output than ever before. At the same time improvements in operating methods have been affected, and various departments have been and are being thoroughly modernized.

CAPASCO Brake Linings have been notably successful and in the insulation field the CAPOSITE Sections and Blocks, which are manufactured from Amosite fibre, have again demonstrated their popularity as the world's most efficient form of insulation.

MINING JOURNAL ANNUAL REVIEW NUMBER

The annual review number of the Mining Journal published in London, (at 15 George Street, Mansion House, London E.C. 4) was issued in May and contained 248 pages. Many specially con-

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ASBESTOS

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tributed articles, reporting on the mining industry thruout the world during 1951 are among its contents. The contents can be roughly grouped as Metals, Mining and Metallurgical Developments, and a Review of the Year covering the various mining fields.

HERBERT MORTON BALL APPOINTED
Secretary and General Attorney of J-M

Herbert Morton Ball has been appointed Secretary and General Attorney of Johns-Manville Corporation.

Mr. Ball succeeds Vandiver Brown who has resigned to devote himself to private interests.

Prior to joining Johns-Manville in 1951 as Assistant Secretary and Assistant General Attorney, Mr. Ball was Assistant General Attorney of American Home Products Corporation. He has also been associated with the Reconstruction Finance Corporation and Fansteel Metallurgical Corporation.

CORRECTION:

The names of *D. E. Green*, Mining Bear Canyon, and *Jack L. Neal*, Metate Asbestos Corporation, were omitted from the list of charter members of the Arizona Asbestos Producers Association, published in our June issue. These names were listed as officers of the Association in our May issue.

FRICTION MATERIALS STANDARDS INSTITUTE, INC.
Annual Meeting—Election of Officers

At the annual meeting of the Friction Materials Standards Institute, Inc., held on June 18, 1952, the members re-elected the following officers for the year starting July 1st:

President—*Franklin A. Miller*, Raybestos-Manhattan, Inc.

Vice President—*Frederick C. Weyburne*, Marshall-Eclipse Division

Treasurer—*Vincent A. Spina*, Scandinavia Belting Company

Secretary—*Miss Harriet G. Duschek*

Other members of the Board of Directors, serving with these officers are:

G. E. Ritter—Molded Materials Division
F. W. Barton—Reddaway Brake Lining Division
H. N. Wilhelm—RiteSet Manufacturing Company
L. Sullivan—Russell Manufacturing Company
D. H. Spicer—World Bestos Corporation

ATLAS ASBESTOS COMPANY LTD.
Publishes New Booklet

The Atlas Asbestos Company Limited of Montreal, P.Q., Canada, (a member of the Turner & Newall organization) recently published a very instructive booklet entitled "It Was In The Beginning".

The booklet, containing legends of asbestos, is beautifully illustrated and gives information as to the nature of asbestos, where it is found, a list of uses and some interesting facts.

Only a very limited number of copies are available for distribution. Write Atlas Asbestos Company Limited, 110 McGill Street, Montreal, Canada.

„ *Tropag* "

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MAINTENANCE PROBLEMS SYMPOSIUM AVAILABLE

The most comprehensive discussion of plant maintenance problems ever compiled is contained in "Techniques of Plant Maintenance—1952", published by Clapp and Poliak, Inc., New York, which conducts the annual Plant Maintenance Conference and Show.

The illustrated volume contains 182 pages and is available postpaid for $6.00 from Clapp and Poliak, Inc., 341 Madison Ave., New York 17.

INDUSTRY ADVISORY COMMITTEE
Confers with Officials of the OPS

An Industry Advisory Committee representing manufacturers of asbestos paper, asbestos millboard, and asbestos paper and wool felt insulation asked officials of the Office of Price Stabilization to initiate an earnings standard survey to provide industry-wide ceiling price adjustments.

Officials told the Committee that immediate consideration will be given to the desirability of initiating an industry earnings standard study and discussed in detail the type of industry data that will be required in connection with such a study.

CURRENT RANGE OF PRICE

As of July 10, 1952

Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona	
No. 1 Crude	1,200.00 to	1,500.00
No. 2 Crude	900.00 to	1,000.00
No. 3 Crude	375.00 to	450.00
Filter Fibre	425.00 to	475.00
Canada—	Per Ton (2000 lbs.) f.o.b. Mine	
Group No. 1 (Crude No. 1)	$1,100.00 to	$1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00 to	1,000.00
Group No. 3 (Spinning Fibre)	300.00 to	525.00
Group No. 4 (Shingle Fibre)	150.00 to	200.00
Group No. 5 (Paper Fibre)	100.00 to	140.00
Group No. 6 (Waste, Stucco or Plaster)		77.00
Group No. 7 (Refuse or Shorts)	35.00 to	70.00
Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville Vt.		
Group No. 3 (Spinning & Filtering)	321.00 to	348.00
Group No. 4 (Shingle Fibre)	156.00 to	173.00
Group No. 5 (Paper Fibre)	110.00 to	132.00
Group No. 6 (Waste, Stucco or Plaster)		78.00
Group No. 7 (Refuse or Shorts)	37.00 to	68.50

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JOHNS-MANVILLE APPOINTS
New Officers

Howard W. Allen, Director of Public Relations, has been appointed Vice President of Johns-Manville Sales Corporation.

C. W. Hite, Director of Plant Industrial Relations, has been appointed Vice President of Johns-Manville Products Corporation and Assistant to the Vice President for Relationships.

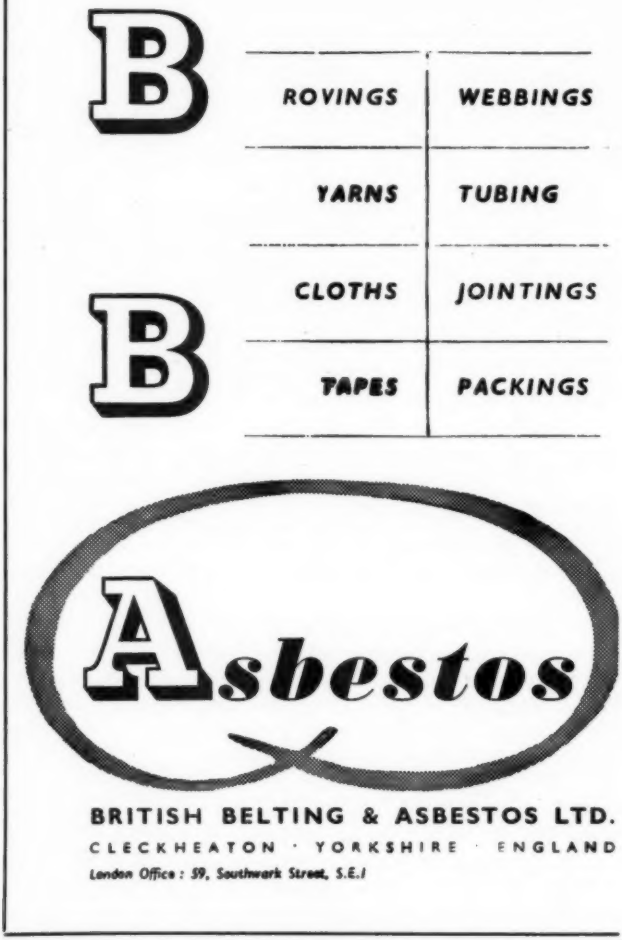
Prior to joining Johns-Manville in 1933, Mr. Allen had been associated with the New Jersey Bell Telephone Company and the Anderson HERALD, Anderson, Indiana. In 1945, he was appointed Director of Public Relations for Johns-Manville and in 1946 he became a member of the Chairman of the Board's staff.

Mr. Hite began his association with Johns-Manville in 1937 at the company's Alexandria, Indiana, plant, and subsequently was industrial relations manager at J-M plants in Richmond, Indiana; Manville, New Jersey; and Waukegan, Illinois. In 1945, he was transferred to the company's offices in New York and made Director of Plant Industrial Relations.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		June 1952		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	38½	40⅝	39½
Amer. Br. Shoe (Pfd)	100	102½	106	103¾
Armst. Ck. (Com)	np	50	52½	50
Armst. Ck. (Pfd)	np	97½	98¾	98
Armst. Ck. (Conv. Pfd)	np	113	116	114½
Asb. Corp. (Com)	np	22⅜	23¼	22½
Asb. Mfg. Co. (Com)	1	1½	1½	1½
Carey (Com)	10	17	17⅜	17⅛
Celotex (Com)	np	17½	18⅞	18
Celotex (Pfd)	20	16½	17	17
Certainteed (Com)	1	14¾	15¾	14⅞
Flintkote (Com)	np	28¾	29¾	29⅛
Flintkote (Pfd)	np	97	102	101
Johns-Manville (Com)	np	73¼	78¾	75½
Pabco Products (Com)	np	13⅝	14¼	13⅞
Pabco Products (Pfd)	100	92	94¾	94½
Ray-Man (Com)	np	42	44	42½
Ruberoid (Com)	np	59	62¼	62¼
Thermoid (Com)	1	9¾	10¼	10
Thermoid (Pfd)	50	45	45½	45½
Union Asb. & Rub. (Com)	5	11⅜	12⅛	12
United Asb. (Com)	1	$2.85	$4.05	$4.05
U. S. Gypsum (Com)	20	113	116⅞	114½
U. S. Gypsum (Pfd)	100	177	178½	177
U. S. Rubber (Com)	10	23	26	26
U. S. Rubber (Pfd)	100	137	140½	140½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AFTERTHOUGHTS

The New York Chapter of the American Institute of Chemists presented its Honor Scroll Award at its annual meeting on May 22, to Dr. Foster Dee Snell, president of Foster D. Snell, Inc. Dr. Gustav Egloff, Director of Research of Universal Oil Products Co., spoke on the subject, "Foster Dee, As I Know Him".

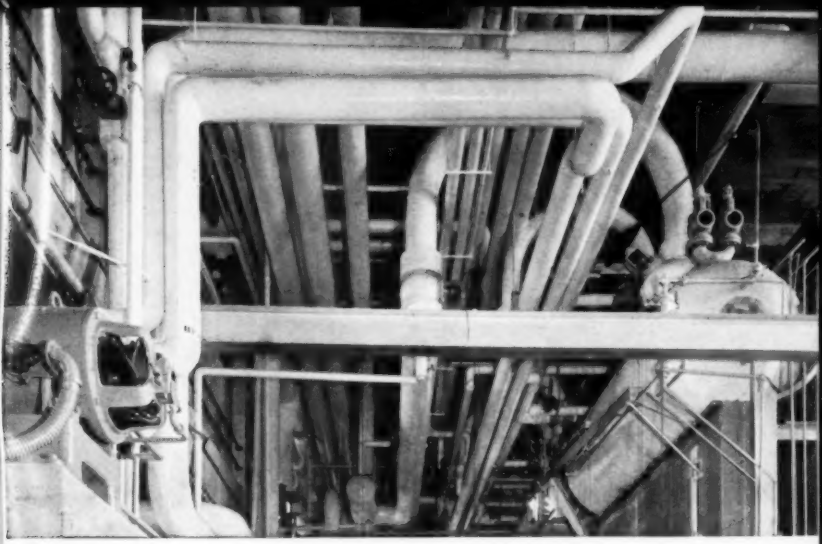
Karl M. Herstein, president of the Herstein Laboratories, presented the scroll which is awarded annually to a chemist making an outstanding contribution to his profession.

The fascinating story of the evolution of human habitation—from the tree-top houses and cave dwellings of prehistoric times to the present day—has been dramatically told in a new comic book, "Shelter Through The Ages".

Classics Illustrated, publishers of educational comic books, collaborated with The Ruberoid Co., manufacturers of asphalt and asbestos-cement building products, in the publication. The material used in the comic book was adapted from "Shelter", a book published by Ruberoid several years ago and widely read by students, teachers, architects, engineers and business and industrial executives.

The basic theme is that the whole history of man and his unceasing struggle toward a happier life is, in a very real sense, the story of shelter. Dramatically, and in full color, the comic book shows how improvements in the conditions of home life gradually achieved by man from age to age paved the way for many important advances in civilization.

The comic book is primarily designed to help promote the Ruberoid dealer as a local headquarters for "shelter" products. Since Classics Illustrated publications are approved by parent-teacher associations thruout the country, a good proportion of the distribution is being made thru educational channels.



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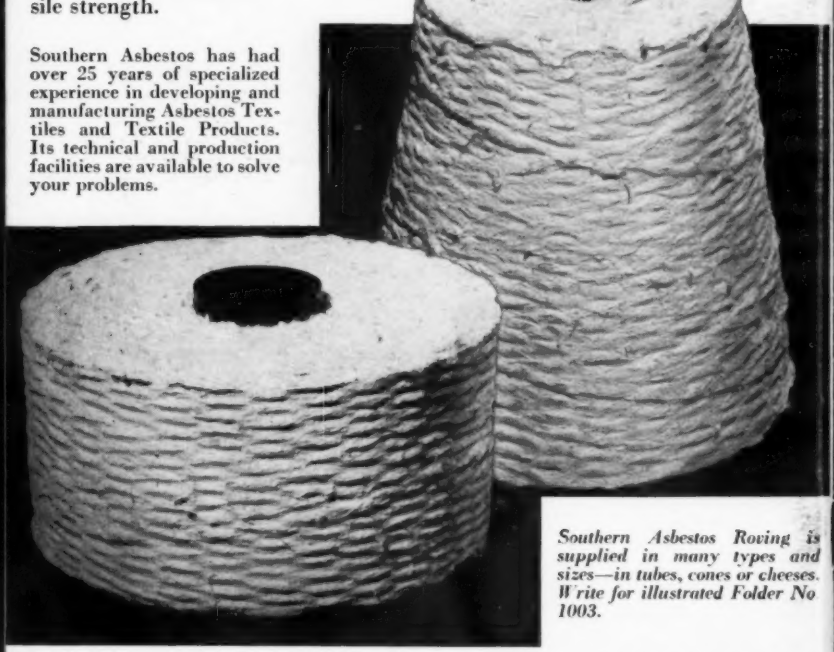

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